Index of Claims



Application No.

09/749,800

Examiner

TAKAYA ET AL

Applicant(s)

Art Unit

leszek b kiliman

1773

| √ | Rejected |
|---|----------|
| = | Allowed  |

(Through numeral) Cancelled Restricted

Non-Elected Ν Interference

**Appeal** O Objected

|                                       |   |  |              |  |            |          |          | l        |  |  |  |
|---------------------------------------|---|--|--------------|--|------------|----------|----------|----------|--|--|--|
|                                       |   | _  |              |  |            | ) o to   |          |          |  |  |  |
| Cla                                   | IIII  | -  | _            |  |            | Date     | -        | -т       | 1  | $\dashv$   | - I  |
| _                                     | ल   | ,  |              |  |            |          |          |          | - 1  |  |  |
| Final                                 | Original  | 03   |              |  |            |          |          |          |  |  |  |
| 4                                     | Ö.  | Du.  |              |  |            |          |          |          |  |  |  |
| <b>_</b>                              |   |  |              | _  |            |          | _        | _        | -  |  | : -  |
| 1234 46788391123456171319022345673673 | 1<br>2<br>3<br>4<br>5<br>6  | Ξ  |              |  |            |          |          | _        | _  | $\Box$   | ::::: <u> </u>                             |
| 2                                     | 2   | ì  |              |  |            |          |          |          | _  | Щ  | _  |
| 3                                     | 3   | Ш  |              |  |            |          |          |          |  | _  | -  |
| 4                                     | 4   | Ш  |              |  |            |          |          |          |  |  |  |
| X                                     | 5   |  |              | <u> </u>   |            |          |          |          |  |  |  |
| 6                                     | 6   |  |              |  |            |          |          |          |  |  |  |
| 7                                     | 7   | П  |              |  |            |          |          |          |  |  |  |
| A                                     | 8   | П  |              |  |            |          |          |          |  |  |  |
| Q                                     | 8<br>9  | Т  |              |  |            |          |          |          |  |  | <u>                                   </u> |
| 1.0                                   | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>-24<br>25<br>26<br>27<br>28<br>29<br>30<br>31 | Ħ  |              |  |            |          |          |          |  |  | . 3:-4                                     |
| 11                                    | 11  | 1  |              | -  |            | _        |          |          |  |  |  |
| 12                                    | 12  | Н  | _            | <u> </u>   |            | <u> </u> |          |          |  |  |  |
| 12                                    | 13  | <del>    -</del>                                 |              |  | H          |          | $\vdash$ |          | _  | -  | -  |
| 12                                    | 11  | ╫┈   |              |  | H          | -        | $\vdash$ |          | _  | -  | -  |
| 14                                    | 14  | ₩  | _            | ⊢  | ├          | ⊢        |          | _        | -  |  | ::   |
| 1.13                                  | 15  | Н  |              | 1—   | <b> </b> - | <b>!</b> | -        |          | _  |  |  |
| 16                                    | 16  | ╙  | _            | ▙  | ļ          |          | _        | <u> </u> |  |  |  |
| 17                                    | 17  | Ш  | <u> </u>     | <u> </u>   | ļ          | _        | <u> </u> | ļ        | <u> </u>   |  | -  |
| 13                                    | 18  | Ш  |              | <u> </u>   | L          |          |          |          |  |  | l L  |
| 13                                    | 19  | Ш  |              | L  |            |          | _        | L        |  |  | : : : ·   _                                |
| 20                                    | 20  | Ш  |              |  |            |          |          |          |  |  |  |
| 21                                    | 21  |  |              |  |            |          |          |          |  |  |  |
| 22                                    | 22  | П  |              | Г  |            |          |          |          |  |  |  |
| 73                                    | 23  | П  |              |  |            | Π        |          |          |  |  | I [  |
| 24                                    | ·24   | Ħ  |              | 1  |            | Г        |          |          |  |  |  |
| 24                                    | 25  | +  |              | <del>                                     </del> |            |          |          |          |  | Т  |  |
| 26                                    | 26  | +  | <u> </u>     |  |            | -        | $\vdash$ | _        |  |  |  |
| 20                                    | 27  | ╁  |              | -  | $\vdash$   | $\vdash$ | -        |          |  | H  |  |
| 11                                    | 28  | ╫  |              | $\vdash$   | ╁╌         | $\vdash$ | -        |          | -  | ┢  | · ·  |
| 7170                                  | 20  | H  | -            | ╁  | ├          | ┢        | <u> </u> | _        | ⊢  | ┢  |  |
| 25                                    | 29  | +  | <del> </del> | $\vdash$   | ┢          | ┢        | $\vdash$ | $\vdash$ | ┢  | ├  | ł:::::                                     |
| 30                                    | 30  | H  | ├            | $\vdash$   | ├          | ├        | ├        | ├        |  | ┢  | ╢╌╟╴                                       |
| 131                                   | 31  | 1  | <del> </del> | ⊢  | -          | $\vdash$ | ⊢        | ├        |  | ⊢  | ┨╶├  |
| ļ                                     | 32<br>33  | -  | ⊢            | ╄  |            | $\vdash$ | ╄        |          | ┝  | -  | -  |
|                                       | 33  | ╄  | ┡            | _  | <u> </u>   | <u> </u> |          | _        | _  | ļ  | ∤∷⊹⊦                                       |
|                                       | 34<br>35<br>36<br>37  | ╙  | ╙            | ╄  | <u> </u>   | _        |          | <u> </u> | _  | ļ  |  |
|                                       | 35  | ļ  | ╙            | ╄  | ļ          | ļ        |          | ↓_       | ļ  | $\vdash$   | <b>.</b> .                                 |
|                                       | 36  |  |              | <u>L</u>   | _          |          | ļ        | ┖        | <u>L</u>   | <u> </u>   | 1  |
|                                       | 37  |  |              |  | L          | _        | 辶        | Ļ_       |  |  | 1  |
|                                       | 38  | <u>L</u> .                                       | <u></u>      |  | L          |          | <u> </u> |          |  |  |  |
|                                       | 39  |  |              |  |            |          | <u> </u> |          |  | L  | J L  |
|                                       | 40  | Π  |              |  |            |          |          |          |  |  | J L  |
|                                       | 41  |  |              | Т  |            |          |          |          |  | T  |  |
|                                       | 42  |  |              | Т  |            | Ī        |          | Г        |  |  | 1::::                                      |
|                                       | 43  | $T^{-}$  | 1            | 1  | T          |          | 1        | Τ        | Τ  | П  | 1  |
|                                       | 44  | <del>                                     </del> | T            | 1  | 1          | t        |          | 1        | T  | $\top$   | 1 1  |
|                                       | 45  | +  | 1            | T  | 1          | 1        | t        | T        | t  | <del>                                     </del> | 1  |
| -                                     | 46  | ✝  | 1            | +-   | t          | T        | +        | $\vdash$ | <del>                                     </del> | +  | 1  |
|                                       | 47  | +  | 1-           | +-   | 1          | +        | +        | $\vdash$ | H  | $\vdash$   | 1 h  |
|                                       | 48  | +  | $\vdash$     | +  | +-         | $\vdash$ | $\vdash$ | +        | $\vdash$   | +-   | ┧┊┟  |
| -                                     |   | ╁  | +            | +  | +          |          | +        | +        | $\vdash$   | +-   | 1 +  |
| -                                     | 49  | ╄  | ┼-           | ╁  | +-         | +        | +        | +        | $\vdash$   | +-   | 1  -                                       |
| L                                     | 50  | ــــــــــــــــــــــــــــــــــــــ           | _            | <u>L</u>   | Т          | <u></u>  | 1        | 1        | <u> </u>   | 1  | J:: L                                      |

|          | Claim  |                |  | Date   |  |  |  |              |              |  |              |  |
|----------|--|----------------|--|--|--|--|--|--------------|--------------|--|--------------|--|
|          |  |                | Ī  |  |  |  |  |              |              |  |              |  |
|          | ā  | Original       |  |  |  |  |  |              |              |  |              |  |
|          | Final  | 훈              |  |  |  |  |  |              |              |  |              |  |
|          |  | 0              |  |  |  |  |  |              |              |  |              |  |
|          |  | 51             |  |  |  |  |  |              |              |  |              |  |
|          |  | 52             |  |  |  |  |  |              |              |  |              |  |
|          |  | 51<br>52<br>53 |  |  |  |  |  |              |              |  |              |  |
|          |  | 54             | T  |  |  |  |  |              |              |  |              |  |
|          | -  | 54<br>55       |  |  |  |  |  |              |              |  |              |  |
|          |  | 56             |  |  |  |  |  |              |              |  | -            |  |
|          |  | 57             | $\neg$   |  |  |  |  |              |              |  |              |  |
|          |  | 58             | $\neg$   |  |  | 一  |  |              |              |  |              |  |
|          |  | 58<br>59       |  | -  |  | $\vdash$   | П  |              |              |  |              |  |
| مدر      |  | 60             | $\neg$   |  |  |  |  |              |              |  |              |  |
|          |  | 61             | $\neg$   |  |  | <u> </u>   |  |              |              |  |              |  |
|          |  | 62             |  |  |  |  |  |              |              |  |              |  |
|          |  | 62<br>63       |  |  | $\vdash$   |  | П  |              |              |  |              |  |
|          |  | 64             |  |  |  |  |  |              |              | П  |              |  |
| . :      |  | 64<br>65       |  |  | ļ  |  | $\vdash$   |              | _            | П  |              |  |
|          |  | 66             |  |  |  |  |  |              |              |  |              |  |
|          |  | 67             |  |  |  |  |  |              | _            | П  |              |  |
|          |  | 68             | $\neg$   |  | $\vdash$   | t  | -  |              | _            | Н  |              |  |
| :::      |  | 69             |  |  | -  |  |  |              | $\vdash$     | -  |              |  |
|          |  | 70             |  |  |  |  | r  |              | ┢            | Н  | _            |  |
| ::       |  | 70<br>71       | _  |  | ╁  |  | 1  |              | ├─           |  |              |  |
|          | <u> </u>   | 72             |  |  | ┪  | H  |  |              | $\vdash$     |  |              |  |
| :<br>:   |  | 73             |  |  |  | ┢  |  |              |              |  | -            |  |
| ij,      |  | 73<br>74       |  | _  | <del> </del>                                     |  | 1  |              |              |  |              |  |
|          |  | 75             |  | _  |  |  | <del>                                     </del> |              | _            | -  |              |  |
|          |  | 75<br>76       | Н  |  | 1-   | <u> </u>   | <u> </u>   | l –          |              | <del>                                     </del> |              |  |
|          |  | 77             | Н  | _  | t  | ┢  | t  |              |              | Г  | _            |  |
| 11       |  | 78             |  |  | <u> </u>   | <del>                                     </del> | t  | Ι            | -            | t  |              |  |
|          |  | 78<br>79       | Н  |  | <del>                                     </del> | t  | H  |              | ┢┈           | _  |              |  |
|          | <u> </u>   | 80             | -  |  |  | 1  | ┢  |              |              | <del>                                     </del> | $\vdash$     |  |
|          | <del> </del>                                     | 81             | -  | ١  | <del> </del>                                     |  | <b> </b>   | $\vdash$     | $\vdash$     | <del>                                     </del> | H            |  |
|          | <del> </del>                                     | 81<br>82       | -  | -  | ┢  | ╁╌   | H  | ┢            | $\vdash$     | <u> </u>   | -            |  |
|          |  | 83             | $\vdash$   |  | ├-   |  | ╁╴   | $\vdash$     | $\vdash$     | <del>                                     </del> | $\vdash$     |  |
|          | -  | 84             | -  | -  | t  | ╁  | T  | ├-           | $\vdash$     | T  | $\vdash$     |  |
|          |  | 85             | _  |  | $\vdash$   | †  | 一  | -            | t            | T  |              |  |
| . ;      |  | 86             | <del>                                     </del> |  | ╁  | t  | -  |              |              | _  | -            |  |
| ,        |  | 87             |  | -  | -  | $\vdash$   | +  | -            | $\vdash$     |  |              |  |
|          |  | 88             | H  | -  | T  | ╁╴   | $\vdash$   |              | <del> </del> |  |              |  |
|          |  | 89             | H  | ├  | 1  | ┼─   | $\vdash$   |              | $\vdash$     |  |              |  |
|          | $\vdash$   | 90             | ┢  | ├─   | <del> </del>                                     | $\vdash$   |  | -            | $\vdash$     | ╁  | $\vdash$     |  |
|          | <u> </u>   | 91             | H  | <del>                                     </del> | +  | +  | t  | ╁            | $\vdash$     | +-   | ┢┈           |  |
|          |  | 92             | ⊢  | $\vdash$   | ╁┈   | +  | $\vdash$   | $\vdash$     | $\vdash$     | +  | <del> </del> |  |
|          | -  | 93             | <del> </del>                                     | -  | +  | +-   | +  | t            | $\vdash$     | $\vdash$   | $\vdash$     |  |
|          | <del>                                     </del> | 94             | $\vdash$   | $\vdash$   | +  | <del> </del>                                     | ┼─   | $\vdash$     | $\vdash$     | 1-   | $\vdash$     |  |
| . :      | $\vdash$   | 95             | -  | ├  | +  | $\vdash$   | +  | $\vdash$     | ├-           | +-   | +            |  |
|          |  | 96             | $\vdash$   | H  | +-   | ╁  | +  | $\vdash$     | $\vdash$     | +  |              |  |
|          | -  | 97             | +-   | -  | +  | +  | ╁  | <del> </del> | 1-           | +  | -            |  |
| :<br>::: |  | 98             | $\vdash$   | $\vdash$   | +  | ╁  | +  | $\vdash$     | +            | $\vdash$   | -            |  |
| ٠.,      | $\vdash$   | 99             | $\vdash$   | $\vdash$   | +-   | +  | +  | +-           | +-           | +  | +-           |  |
|          | <u> </u>   | 99             | -  | <b>├</b>   | ╀  |  | ₩  | <b>!</b>     | ₩            | 1  | 1—           |  |

100

|          |                                 | Date         |          |          |          |          |           |                |                |                 |  |
|----------|---------------------------------|--------------|----------|----------|----------|----------|-----------|----------------|----------------|-----------------|--|
| Cla      |                                 |              |          | ᆛ        | ate      | ;        | - 1       | F              |                |                 |  |
| Final    | Original                        |              |          |          |          |          |           |                |                |                 |  |
|          | 101                             |              |          |          |          |          |           |                |                |                 |  |
|          | 102                             | $\Box$       |          | _        |          |          |           |                |                | _               |  |
|          | 103                             |              |          |          | _        |          | _         |                | _              | _               |  |
|          | 103<br>104<br>105               | $\dashv$     | $\dashv$ | $\dashv$ |          |          | -         |                | _              |                 |  |
|          | 105                             | $\vdash$     |          |          |          |          |           |                | -              | $\dashv$        |  |
|          | 107                             |              |          |          | _        |          | _         |                | -              | $\dashv$        |  |
|          | 108                             |              | $\dashv$ |          |          |          | $\exists$ |                |                |                 |  |
|          | 109                             |              |          |          |          |          |           |                |                |                 |  |
|          | 110                             |              |          |          |          |          |           |                |                |                 |  |
|          | 111<br>112<br>113               |              |          |          |          |          |           |                |                |                 |  |
|          | 112                             |              |          |          |          |          |           |                | _              |                 |  |
|          | 113                             |              |          |          |          | _        |           |                | ш              | -               |  |
|          | 114<br>115                      | ┝            |          |          |          |          |           |                |                |                 |  |
|          | 116                             | Н            | _        |          |          |          |           |                |                | $\dashv$        |  |
|          | 117                             | Н            |          | -        |          |          |           |                |                | $\neg$          |  |
|          | 118                             | Н            |          |          | _        | Н        |           |                |                |                 |  |
|          | 119                             | H            |          |          |          |          |           |                |                |                 |  |
|          | 120                             |              |          |          | -        |          |           |                |                |                 |  |
|          | 121                             |              |          |          |          |          |           |                |                |                 |  |
|          | 122                             |              |          |          |          |          |           |                |                |                 |  |
|          | 123                             |              |          | _        |          | L_       |           | ļ              | _              |                 |  |
|          | 124                             | _            |          | -        |          | -        |           |                | ⊢              | Н               |  |
| <u> </u> | 122<br>123<br>124<br>125<br>126 |              |          | -        |          |          |           | <del> </del> - | -              | H               |  |
| $\vdash$ | 127                             |              |          |          | $\vdash$ | -        |           | -              |                | $\vdash$        |  |
|          | 127<br>128<br>129               |              |          | -        | $\vdash$ | -        | -         | <u> </u>       |                |                 |  |
|          | 129                             |              |          |          |          | _        |           |                | $\vdash$       | П               |  |
|          | 130<br>131                      |              |          |          |          |          |           |                |                |                 |  |
|          | 131                             |              |          |          |          |          |           |                |                |                 |  |
|          | 132                             | ļ            |          |          | _        | <u> </u> | _         |                |                |                 |  |
|          | 133<br>134                      | L            |          | _        | _        |          |           | _              |                |                 |  |
|          | 134                             | -            | -        | <u> </u> | <u> </u> |          | -         | _              | ├              | $\vdash$        |  |
| -        | 135<br>136                      |              | -        | ⊢        | -        | $\vdash$ | ┝         |                | ╁              | Н               |  |
| ļ        | 137                             | $\vdash$     | ├        | ┢        | 1        | ╁        | -         | H              | H              | $\vdash$        |  |
| -        | 138                             |              | -        | ┢        |          | m        |           | Н              | ╁              |                 |  |
|          | 139                             | <b> </b>     | -        | _        |          | <b> </b> |           |                |                |                 |  |
|          | 140                             |              |          |          |          |          |           |                |                |                 |  |
|          | 141                             |              |          |          |          |          |           |                |                |                 |  |
|          | 142                             |              | Ĺ        | <u>L</u> | L        | L        |           | _              | L              | Ш               |  |
| <u> </u> | 143                             | <del> </del> | _        | _        | <u> </u> | <b> </b> | _         | $\vdash$       |                | $\sqcup$        |  |
| <u> </u> | 144                             |              | _        | 1        |          | -        | -         | H              | ┡              | $\vdash$        |  |
| ├—       | 145<br>146                      | ⊢            | -        | ├-       | -        | ┝        | $\vdash$  | ├-             | ┼              | $\vdash \vdash$ |  |
| $\vdash$ | 140                             | $\vdash$     | $\vdash$ | +        | $\vdash$ | -        |           | $\vdash$       | ╁              | $\vdash$        |  |
| -        | 148                             | t            |          | H        | $\vdash$ | ╁╌       | $\vdash$  |                | <del>  -</del> | $\vdash$        |  |
|          | 149                             | T            |          |          | <u> </u> | T        |           |                | T              | H               |  |
|          | 150                             | 匚            |          |          |          | Γ        |           |                |                |                 |  |
|          |                                 |              |          |          |          |          |           |                |                |                 |  |